**Statement of Work (SOW)**

**Project Title:** Registration of elective courses or projects  
**Date:** 07-02-2024  
**Prepared By:** Shiva Siddhartha, Shiva Ranjani, Darshan, Dharani.

1. **Introduction**

This project aims to create a centralized, user-friendly platform that streamlines the registration process for students enrolling in elective courses or projects. The system will provide an intuitive interface where students can explore available options, check prerequisites, and register seamlessly. For administrators, the platform will offer tools to manage course capacities, monitor registrations, and generate reports for better decision-making.

This solution will improve course allocation, reduce conflicts, and enhance the overall academic experience by ensuring a fair and efficient registration process for all stakeholders.

**2. Scope of Work**

* **Project Description:**

The system will allow students to view available elective courses/projects, check prerequisites, register for courses, and view their schedules. Administrators will be able to manage courses, monitor registrations, and generate reports.

* **Objectives:**
  1. Provide students with an intuitive interface to browse, select, and enroll in electives or projects.
  2. Offer administrators the ability to set course/project availability, manage enrollments, and track registration statistics.
  3. Ensure transparency in course/project allocation and availability.
  4. Reduce manual workload by automating enrollment, waitlisting, and notifications.
  5. Improve decision-making through real-time reports and analytics on registration trends.
* **Key Activities:**
  1. Requirement Analysis & Planning
  2. Identify user needs (students, faculty, and administrators).
  3. Define system requirements (features, scalability, security).
  4. Determine technical stack (frontend, backend, database).
  5. Develop project timeline and milestones.
  6. UI/UX Design
  7. Create wireframes and prototypes for the platform.
  8. Design user-friendly interfaces for students and administrators.
  9. Gather feedback from stakeholders and refine designs.
  10. System Development
  11. Frontend Development: Build student and admin dashboards.
  12. Backend Development: Develop APIs, database schema, and logic for registration, authentication, and notifications.
  13. Database Setup: Configure tables for users, courses, enrollments, and logs.
  14. Integration & Testing
  15. Implement authentication (OAuth, JWT, or institutional login).
  16. Integrate real-time notifications (email/SMS).
  17. Perform unit, integration, and user acceptance testing.
  18. Training & Documentation
  19. Create user guides for students and administrators.
  20. Train faculty and admins on using the platform.
  21. Maintenance & Continuous Improvement
  22. Monitor system performance and resolve bugs.
  23. Gather feedback and implement feature updates.
  24. Scale the platform based on demand.

**3. Deliverables**

List the tangible and intangible outputs of the project.

* **Deliverable 1:** Requirement Specification Document
* **Deliverable 2:** System Design and Prototype
* **Deliverable 3:** Fully Functional Registration System
* **Deliverable 4:** User and Administrator Manuals
* **Deliverable 5:** Final Project Report

**4. Timeline and Milestones**

Provide a high-level timeline with key milestones.

|  |  |  |
| --- | --- | --- |
| **Milestone** | **Description** | **Due Date** |
| Project Kickoff | Initial project meeting | Jan 29th |
| Phase 1 Completion | Submission of Statement of Work | Feb 7th |
| **Phase 2 Completion** | Submission of Software Requirements Specification | March 10th |
| **Phase 3 Completion** | Submission of Software Design Document | Apr 7th |
| **Phase 4 Completion** | Submission of Software Test Plan | May 9th |
| **Final Delivery** | Project Demos & Submission of all deliverables | May 20th - May 22nd |

**5. Roles and Responsibilities**

**Team Members:**

1. Shiva Siddhartha - Frontend, Backend, Database Design and Management
2. Shiva Ranjani - Frontend, backend, Testing and Deployment.
3. Darshan **–** Frontend, Database Design and Management.
4. Dharani – Backend, Testing and Deployment.

**Client Contact:** Software Engineering course, Mahindra University

**6. Budget and Payment Terms (For now you can ignore this)**

**7. Assumptions and Constraints**

List any assumptions and constraints that may impact the project.

* **Assumptions**

1. The development team will have access to the necessary tools, software, and hardware required for the project.
2. The client (Mahindra University) will provide access to relevant data, such as course details, student information, and prerequisites.
3. Students and administrators will actively participate in testing and provide feedback during the development process.
4. The system will integrate seamlessly with existing university systems
5. The system will comply with university policies and data protection regulations.
6. All stakeholders (students, faculty, and administrators) will cooperate and provide necessary inputs during the requirement-gathering phase.

* **Constraints**

1. The project must be completed within the academic semester timeline to ensure it is ready for the next registration cycle.
2. The system must be compatible with existing university systems and technologies.
3. Limited access to certain APIs or databases may restrict functionality.
4. The system must handle a large number of concurrent users during peak registration periods without performance degradation.
5. The system must ensure the security and privacy of student and course data, which may require additional development time and resources.
6. Time and resources will be required to train students and administrators on how to use the new system effectively.

**8. Approval Signatures**

**Client:**  
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Service Provider:**  
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_